APPENDIX A

```
RESULT 2
US-09-946-374-85
; Sequence 85, Application US/09946374
; Publication No. US20030073129A1
; GENERAL INFORMATION:
;  APPLICANT: Baker, Kevin P.
;  APPLICANT:  Botstein, David
;  APPLICANT:  Desnoyers, Luc
;  APPLICANT:  Eaton, Dan L.
;  APPLICANT:  Ferrara, Napoleone
;  APPLICANT:  Fong, Sherman
;  APPLICANT:  Gao, Wei-Qiang
;  APPLICANT:  Goddard, Audrey
;  APPLICANT:  Godowski, Paul J.
;  APPLICANT:  Grimaldi, Christopher J.
;  APPLICANT:  Gurney, Austin L.
;  APPLICANT:  Hillan, Kenneth J.
;  APPLICANT:  Pan, James
;  APPLICANT:  Paoni, Nicholas F.
;  APPLICANT:  Roy, Margaret Ann
;  APPLICANT:  Smith, Victoria
;  APPLICANT:  Stewart, Timothy A.
;  APPLICANT:  Tumas, Daniel
;  APPLICANT:  Watanabe, Colin K.
;  APPLICANT:  Williams, P. Mickey
;  APPLICANT:  Wood, William I.
;  TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;  TITLE OF INVENTION:  Acids Encoding the Same
;  FILE REFERENCE: P2830P1C1
;  CURRENT APPLICATION NUMBER: US/09/946,374
;  CURRENT FILING DATE:  2001-09-04
;  PRIOR APPLICATION NUMBER: 60/098716
;  PRIOR FILING DATE: 1998-09-01
;  PRIOR APPLICATION NUMBER: 60/098723
;  PRIOR FILING DATE: 1998-09-01
;  PRIOR APPLICATION NUMBER: 60/098749
;  PRIOR FILING DATE: 1998-09-01
;  PRIOR APPLICATION NUMBER: 60/098750
;  PRIOR FILING DATE: 1998-09-01
;  PRIOR APPLICATION NUMBER: 60/098803
;  PRIOR FILING DATE: 1998-09-02
;  PRIOR APPLICATION NUMBER: 60/098821
;  PRIOR FILING DATE: 1998-09-02
;  PRIOR APPLICATION NUMBER: 60/098843
;  PRIOR FILING DATE: 1998-09-02
;  PRIOR APPLICATION NUMBER: 60/099536
;  PRIOR FILING DATE: 1998-09-09
;  PRIOR APPLICATION NUMBER: 60/099596
;  PRIOR FILING DATE: 1998-09-09
;  PRIOR APPLICATION NUMBER: 60/099598
;  PRIOR FILING DATE: 1998-09-09
;  PRIOR APPLICATION NUMBER: 60/099602
;  PRIOR FILING DATE: 1998-09-09
;  PRIOR APPLICATION NUMBER: 60/099642
;  PRIOR FILING DATE: 1998-09-09
;  PRIOR APPLICATION NUMBER: 60/099741
;  PRIOR FILING DATE: 1998-09-10
;  PRIOR APPLICATION NUMBER: 60/099754
;  PRIOR FILING DATE: 1998-09-10
;  PRIOR APPLICATION NUMBER: 60/099763
;  PRIOR FILING DATE: 1998-09-10
;  PRIOR APPLICATION NUMBER: 60/099792
;  PRIOR FILING DATE: 1998-09-10
;  PRIOR APPLICATION NUMBER: 60/099808
```

```
;   PRIOR FILING DATE: 1998-09-10
;   PRIOR APPLICATION NUMBER: 60/099812
;   PRIOR FILING DATE: 1998-09-10
;   PRIOR APPLICATION NUMBER: 60/099815
;   PRIOR FILING DATE: 1998-09-10
;   PRIOR APPLICATION NUMBER: 60/099816
;   PRIOR FILING DATE: 1998-09-10
;   PRIOR APPLICATION NUMBER: 60/100385
;   PRIOR FILING DATE: 1998-09-15
;   PRIOR APPLICATION NUMBER: 60/100388
;   PRIOR FILING DATE: 1998-09-15
;   PRIOR APPLICATION NUMBER: 60/100390
;   PRIOR FILING DATE: 1998-09-15
;   PRIOR APPLICATION NUMBER: 60/100584
;   PRIOR FILING DATE: 1998-09-16
;   PRIOR APPLICATION NUMBER: 60/100627
;   PRIOR FILING DATE: 1998-09-16
;   PRIOR APPLICATION NUMBER: 60/100661
;   PRIOR FILING DATE: 1998-09-16
;   PRIOR APPLICATION NUMBER: 60/100662
;   PRIOR FILING DATE: 1998-09-16
;   PRIOR APPLICATION NUMBER: 60/100664
;   PRIOR FILING DATE: 1998-09-16
;   PRIOR APPLICATION NUMBER: 60/100683
;   PRIOR FILING DATE: 1998-09-17
;   PRIOR APPLICATION NUMBER: 60/100684
;   PRIOR FILING DATE: 1998-09-17
;   PRIOR APPLICATION NUMBER: 60/100710
;   PRIOR FILING DATE: 1998-09-17
;   PRIOR APPLICATION NUMBER: 60/100711
;   PRIOR FILING DATE: 1998-09-17
;   PRIOR APPLICATION NUMBER: 60/100848
;   PRIOR FILING DATE: 1998-09-18
;   PRIOR APPLICATION NUMBER: 60/100849
;   PRIOR FILING DATE: 1998-09-18
;   PRIOR APPLICATION NUMBER: 60/100919
;   PRIOR FILING DATE: 1998-09-17
;   PRIOR APPLICATION NUMBER: 60/100930
;   PRIOR FILING DATE: 1998-09-17
;   PRIOR APPLICATION NUMBER: 60/101014
;   PRIOR FILING DATE: 1998-09-18
;   PRIOR APPLICATION NUMBER: 60/101068
;   PRIOR FILING DATE: 1998-09-18
;   PRIOR APPLICATION NUMBER: 60/101071
;   PRIOR FILING DATE: 1998-09-18
;   PRIOR APPLICATION NUMBER: 60/101279
;   PRIOR FILING DATE: 1998-09-22
;   PRIOR APPLICATION NUMBER: 60/101471
;   PRIOR FILING DATE: 1998-09-23
;   PRIOR APPLICATION NUMBER: 60/101472
;   PRIOR FILING DATE: 1998-09-23
;   PRIOR APPLICATION NUMBER: 60/101474
;   PRIOR FILING DATE: 1998-09-23
;   PRIOR APPLICATION NUMBER: 60/101475
;   PRIOR FILING DATE: 1998-09-23
;   PRIOR APPLICATION NUMBER: 60/101476
;   PRIOR FILING DATE: 1998-09-23
;   PRIOR APPLICATION NUMBER: 60/101477
;   PRIOR FILING DATE: 1998-09-23
;   PRIOR APPLICATION NUMBER: 60/101479
;   PRIOR FILING DATE: 1998-09-23
;   PRIOR APPLICATION NUMBER: 60/101738
;   PRIOR FILING DATE: 1998-09-24
;   PRIOR APPLICATION NUMBER: 60/101741
;   PRIOR FILING DATE: 1998-09-24
;   PRIOR APPLICATION NUMBER: 60/101743
;   PRIOR FILING DATE: 1998-09-24
```

```
;  PRIOR APPLICATION NUMBER: 60/101915
;  PRIOR FILING DATE: 1998-09-24
;  PRIOR APPLICATION NUMBER: 60/101916
;  PRIOR FILING DATE: 1998-09-24
;  PRIOR APPLICATION NUMBER: 60/102207
;  PRIOR FILING DATE: 1998-09-29
;  PRIOR APPLICATION NUMBER: 60/102240
;  PRIOR FILING DATE: 1998-09-29
;  PRIOR APPLICATION NUMBER: 60/102307
;  PRIOR FILING DATE: 1998-09-29
;  PRIOR APPLICATION NUMBER: 60/102330
;  PRIOR FILING DATE: 1998-09-29
;  PRIOR APPLICATION NUMBER: 60/102331
;  PRIOR FILING DATE: 1998-09-29
;  PRIOR APPLICATION NUMBER: 60/102484
;  PRIOR FILING DATE: 1998-09-30
;  PRIOR APPLICATION NUMBER: 60/102487
;  PRIOR FILING DATE: 1998-09-30
;  PRIOR APPLICATION NUMBER: 60/102570
;  PRIOR FILING DATE: 1998-09-30
;  PRIOR APPLICATION NUMBER: 60/102571
;  PRIOR FILING DATE: 1998-09-30
;  PRIOR APPLICATION NUMBER: 60/102684
;  PRIOR FILING DATE: 1998-10-01
;  PRIOR APPLICATION NUMBER: 60/102687
;  PRIOR FILING DATE: 1998-10-01
;  PRIOR APPLICATION NUMBER: 60/102965
;  PRIOR FILING DATE: 1998-10-02
;  PRIOR APPLICATION NUMBER: 60/103258
;  PRIOR FILING DATE: 1998-10-06
;  PRIOR APPLICATION NUMBER: 60/103314
;  PRIOR FILING DATE: 1998-10-07
;  PRIOR APPLICATION NUMBER: 60/103315
;  PRIOR FILING DATE: 1998-10-07
;  PRIOR APPLICATION NUMBER: 60/103328
;  PRIOR FILING DATE: 1998-10-07
;  PRIOR APPLICATION NUMBER: 60/103395
;  PRIOR FILING DATE: 1998-10-07
;  PRIOR APPLICATION NUMBER: 60/103396
;  PRIOR FILING DATE: 1998-10-07
;  PRIOR APPLICATION NUMBER: 60/103401
;  PRIOR FILING DATE: 1998-10-07
;  PRIOR APPLICATION NUMBER: 60/103449
;  PRIOR FILING DATE: 1998-10-06
;  PRIOR APPLICATION NUMBER: 60/103633
;  PRIOR FILING DATE: 1998-10-08
;  PRIOR APPLICATION NUMBER: 60/103678
;  PRIOR FILING DATE: 1998-10-08
;  PRIOR APPLICATION NUMBER: 60/103679
;  PRIOR FILING DATE: 1998-10-08
;  PRIOR APPLICATION NUMBER: 60/103711
;  PRIOR FILING DATE: 1998-10-08
;  PRIOR APPLICATION NUMBER: 60/104257
;  PRIOR FILING DATE: 1998-10-14
;  PRIOR APPLICATION NUMBER: 60/104987
;  PRIOR FILING DATE: 1998-10-20
;  PRIOR APPLICATION NUMBER: 60/105000
;  PRIOR FILING DATE: 1998-10-20
;  PRIOR APPLICATION NUMBER: 60/105002
;  PRIOR FILING DATE: 1998-10-20
;  PRIOR APPLICATION NUMBER: 60/105104
;  PRIOR FILING DATE: 1998-10-21
;  PRIOR APPLICATION NUMBER: 60/105169
;  PRIOR FILING DATE: 1998-10-22
;  PRIOR APPLICATION NUMBER: 60/105266
;  PRIOR FILING DATE: 1998-10-22
;  PRIOR APPLICATION NUMBER: 60/105693
```

```
;  PRIOR FILING DATE: 1998-10-26
;  PRIOR APPLICATION NUMBER: 60/105694
;  PRIOR FILING DATE: 1998-10-26
;  PRIOR APPLICATION NUMBER: 60/105807

  Query Match            98.3%;  Score 3261;  DB 10;  Length 3316;
  Best Local Similarity  100.0%;  Pred. No. 0;
  Matches 3311;  Conservative   0;  Mismatches   1;  Indels   0;  Gaps   0;

Qy         1 CATGGCCTGACTCGGGACAGCTCAGAGCAGGGCAGAACTGGGGACACTCTGGGCCGGCCT 60
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         5 CATGGCCTGACTCGGGACAGCTCAGAGCAGGGCAGAACTGGGGACACTCTGGGCCGGCCT 64

Qy        61 TCTGCCTGCATGGACGCTCTGAAGCCACCCTGTCTCTGGAGGAACCACGAGCGAGGGAAG 120
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        65 TCTGCCTGCATGGACGCTCTGAAGCCACCCTGTCTCTGGAGGAACCACGAGCGAGGGAAG 124

Qy       121 AAGGACAGGGACTCGTGTGGCAGGAAGAACTCAGAGCCGGGAAGCCCCCATTCACTAGAA 180
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       125 AAGGACAGGGACTCGTGTGGCAGGAAGAACTCAGAGCCGGGAAGCCCCCATTCACTAGAA 184

Qy       181 GCACTGAGAGATGCGGCCCCCTCGCAGGGTCTGAATTTCCTGCTGCTGTTCACAAAGATG 240
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       185 GCACTGAGAGATGCGGCCCCCTCGCAGGGTCTGAATTTCCTGCTGCTGTTCACAAAGATG 244

Qy       241 CTTTTTATCTTTAACTTTTTGTTTTCCCCACTTCCGACCCCGGCGTTGATCTGCATCCTG 300
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       245 CTTTTTATCTTTAACTTTTTGTTTTCCCCACTTCCGACCCCGGCGTTGATCTGCATCCTG 304

Qy       301 ACATTTGGAGCTGCCATCTTCTTGTGGCTGATCACCAGACCTCAACCCGTCTTACCTCTT 360
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       305 ACATTTGGAGCTGCCATCTTCTTGTGGCTGATCACCAGACCTCAACCCGTCTTACCTCTT 364

Qy       361 CTTGACCTGAACAATCAGTCTGTGGGAATTGAGGGAGGAGCACGGAAGGGGGTTTCCCAG 420
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       365 CTTGACCTGAACAATCAGTCTGTGGGAATTGAGGGAGGAGCACGGAAGGGGGTTTCCCAG 424

Qy       421 AAGAACAATGACCTAACAAGTTGCTGCTTCTCAGATGCCAAGACTATGTATGAGGTTTTC 480
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       425 AAGAACAATGACCTAACAAGTTGCTGCTTCTCAGATGCCAAGACTATGTATGAGGTTTTC 484

Qy       481 CAAAGAGGACTCGCTGTGTCTGACAATGGGCCCTGCTTGGGATATAGAAAACCAAACCAG 540
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       485 CAAAGAGGACTCGCTGTGTCTGACAATGGGCCCTGCTTGGGATATAGAAAACCAAACCAG 544

Qy       541 CCCTACAGATGGCTATCTTACAAACAGGTGTCTGATAGAGCAGAGTACCTGGGTTCCTGT 600
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       545 CCCTACAGATGGCTATCTTACAAACAGGTGTCTGATAGAGCAGAGTACCTGGGTTCCTGT 604

Qy       601 CTCTTGCATAAAGGTTATAAATCATCACCAGACCAGTTTGTCGGCATCTTTGCTCAGAAT 660
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       605 CTCTTGCATAAAGGTTATAAATCATCACCAGACCAGTTTGTCGGCATCTTTGCTCAGAAT 664

Qy       661 AGGCCAGAGTGGATCATCTCCGAATTGGCTTGTTACACGTACTCTATGGTAGCTGTACCT 720
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       665 AGGCCAGAGTGGATCATCTCCGAATTGGCTTGTTACACGTACTCTATGGTAGCTGTACCT 724

Qy       721 CTGTATGACACCTTGGGACCAGAAGCCATCGTACATATTGTCAACAAGGCTGATATCGCC 780
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||:|||
Db       725 CTGTATGACACCTTGGGACCAGAAGCCATCGTACATATTGTCAACAAGGCTGATATCGCC 784

Qy       781 GTGGTGATCTGTGACACACCCCAAAAGGCATTGGTGCTGATAGGGAATGTAGAGAAAGGC 840
             ||||||||||||||||||||||||||||||||||||||||:||||||||||||||||||
Db       785 ATGGTGATCTGTGACACACCCCAAAAGGCATTGGTGCTGATAGGGAATGTAGAGAAAGGC 844

Qy       841 TTCACCCCGAGCCTGAAGGTGATCATCCTTATGGACCCCTTTGATGATGACCTGAAGCAA 900
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
```

```
Db      845 TTCACCCCGAGCCTGAAGGTGATCATCCTTATGGACCCCTTTGATGATGACCTGAAGCAA 904

Qy      901 AGAGGGGAGAAGAGTGGAATTGAGATCTTATCCCTATATGATGCTGAGAACCTAGGCAAA 960
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      905 AGAGGGGAGAAGAGTGGAATTGAGATCTTATCCCTATATGATGCTGAGAACCTAGGCAAA 964

Qy      961 GAGCACTTCAGAAAACCTGTGCCTCCTAGCCCAGAAGACCTGAGCGTCATCTGCTTCACC 1020
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      965 GAGCACTTCAGAAAACCTGTGCCTCCTAGCCCAGAAGACCTGAGCGTCATCTGCTTCACC 1024

Qy     1021 AGTGGGACCACAGGTGACCCCAAAGGAGCCATGATAACCCATCAAAATATTGTTTCAAAT 1080
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     1025 AGTGGGACCACAGGTGACCCCAAAGGAGCCATGATAACCCATCAAAATATTGTTTCAAAT 1084

Qy     1081 GCTGCTGCCTTTCTCAAATGTGTGGAGCATGCTTATGAGCCCACTCCTGATGATGTGGCC 1140
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     1085 GCTGCTGCCTTTCTCAAATGTGTGGAGCATGCTTATGAGCCCACTCCTGATGATGTGGCC 1144

Qy     1141 ATATCCTACCTCCCTCTGGCTCATATGTTTGAGAGGATTGTACAGGCTGTTGTGTACAGC 1200
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     1145 ATATCCTACCTCCCTCTGGCTCATATGTTTGAGAGGATTGTACAGGCTGTTGTGTACAGC 1204

Qy     1201 TGTGGAGCCAGAGTTGGATTCTTCCAAGGGGATATTCGGTTGCTGGCTGACGACATGAAG 1260
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     1205 TGTGGAGCCAGAGTTGGATTCTTCCAAGGGGATATTCGGTTGCTGGCTGACGACATGAAG 1264

Qy     1261 ACTTTGAAGCCCACATTGTTTCCCGCGGTGCCTCGACTCCTTAACAGGATCTACGATAAG 1320
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     1265 ACTTTGAAGCCCACATTGTTTCCCGCGGTGCCTCGACTCCTTAACAGGATCTACGATAAG 1324

Qy     1321 GTACAAAATGAGGCCAAGACACCCTTGAAGAAGTTCTTGTTGAAGCTGGCTGTTTCCAGT 1380
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     1325 GTACAAAATGAGGCCAAGACACCCTTGAAGAAGTTCTTGTTGAAGCTGGCTGTTTCCAGT 1384

Qy     1381 AAATTCAAAGAGCTTCAAAAGGGTATCATCAGGCATGATAGTTTCTGGGACAAGCTCATC 1440
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     1385 AAATTCAAAGAGCTTCAAAAGGGTATCATCAGGCATGATAGTTTCTGGGACAAGCTCATC 1444

Qy     1441 TTTGCAAAGATCCAGGACAGCCTGGGCGGAAGGGTTCGTGTAATTGTCACTGGAGCTGCC 1500
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     1445 TTTGCAAAGATCCAGGACAGCCTGGGCGGAAGGGTTCGTGTAATTGTCACTGGAGCTGCC 1504

Qy     1501 CCCATGTCCACTTCAGTCATGACATTCTTCCGGGCAGCAATGGGATGTCAGGTGTATGAA 1560
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     1505 CCCATGTCCACTTCAGTCATGACATTCTTCCGGGCAGCAATGGGATGTCAGGTGTATGAA 1564

Qy     1561 GCTTATGGTCAAACAGAATGCACAGGTGGCTGTACATTTACATTACCTGGGGACTGGACA 1620
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     1565 GCTTATGGTCAAACAGAATGCACAGGTGGCTGTACATTTACATTACCTGGGGACTGGACA 1624

Qy     1621 TCAGGTCACGTTGGGGTGCCCCTGGCTTGCAATTACGTGAAGCTGGAAGATGTGGCTGAC 1680
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     1625 TCAGGTCACGTTGGGGTGCCCCTGGCTTGCAATTACGTGAAGCTGGAAGATGTGGCTGAC 1684

Qy     1681 ATGAACTACTTTACAGTGAATAATGAAGGAGAGGTCTGCATCAAGGGTACAAACGTGTTC 1740
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     1685 ATGAACTACTTTACAGTGAATAATGAAGGAGAGGTCTGCATCAAGGGTACAAACGTGTTC 1744

Qy     1741 AAAGGATACCTGAAGGACCCTGAGAAGACACAGGAAGCCCTGGACAGTGATGGCTGGCTT 1800
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     1745 AAAGGATACCTGAAGGACCCTGAGAAGACACAGGAAGCCCTGGACAGTGATGGCTGGCTT 1804

Qy     1801 CACACAGGAGACATTGGTCGCTGGCTCCCGAATGGAACTCTGAAGATCATCGACCGTAAA 1860
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     1805 CACACAGGAGACATTGGTCGCTGGCTCCCGAATGGAACTCTGAAGATCATCGACCGTAAA 1864

Qy     1861 AAGAACATTTTCAAGCTGGCCCAAGGAGAATACATTGCACCAGAGAAGATAGAAAATATC 1920
```

```
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1865 AAGAACATTTTCAAGCTGGCCCAAGGAGAATACATTGCACCAGAGAAGATAGAAAATATC 1924

Qy   1921 TACAACAGGAGTCAACCAGTGTTACAAATTTTTGTACACGGGGAGAGCTTACGGTCATCC 1980
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1925 TACAACAGGAGTCAACCAGTGTTACAAATTTTTGTACACGGGGAGAGCTTACGGTCATCC 1984

Qy   1981 TTAGTAGGAGTGGTGGTTCCTGACACAGATGTACTTCCCTCATTTGCAGCCAAGCTTGGG 2040
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1985 TTAGTAGGAGTGGTGGTTCCTGACACAGATGTACTTCCCTCATTTGCAGCCAAGCTTGGG 2044

Qy   2041 GTGAAGGGCTCCTTTGAGGAACTGTGCCAAAACCAAGTTGTAAGGGAAGCCATTTTAGAA 2100
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   2045 GTGAAGGGCTCCTTTGAGGAACTGTGCCAAAACCAAGTTGTAAGGGAAGCCATTTTAGAA 2104

Qy   2101 GACTTGCAGAAAATTGGGAAAGAAAGTGGCCTTAAAACTTTTGAACAGGTCAAAGCCATT 2160
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   2105 GACTTGCAGAAAATTGGGAAAGAAAGTGGCCTTAAAACTTTTGAACAGGTCAAAGCCATT 2164

Qy   2161 TTTCTTCATCCAGAGCCATTTTCCATTGAAAATGGGCTCTTGACACCAACATTGAAAGCA 2220
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   2165 TTTCTTCATCCAGAGCCATTTTCCATTGAAAATGGGCTCTTGACACCAACATTGAAAGCA 2224

Qy   2221 AAGCGAGGAGAGCTTTCCAAATACTTTCGGACCCAAATTGACAGCCTGTATGAGCACATC 2280
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   2225 AAGCGAGGAGAGCTTTCCAAATACTTTCGGACCCAAATTGACAGCCTGTATGAGCACATC 2284

Qy   2281 CAGGATTAGGATAAGGTACTTAAGTACCTGCCGGCCCACTGTGCACTGCTTGTGAGAAAA 2340
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   2285 CAGGATTAGGATAAGGTACTTAAGTACCTGCCGGCCCACTGTGCACTGCTTGTGAGAAAA 2344

Qy   2341 TGGATTAAAAACTATTCTTACATTTGTTTTGCCTTTCCTCCTATTTTTTTTTAACCTGTT 2400
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   2345 TGGATTAAAAACTATTCTTACATTTGTTTTGCCTTTCCTCCTATTTTTTTTTAACCTGTT 2404

Qy   2401 AAACTCTAAAGCCATAGCTTTTGTTTTATATTGAGACATATAATGTGTAAACTTAGTTCC 2460
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   2405 AAACTCTAAAGCCATAGCTTTTGTTTTATATTGAGACATATAATGTGTAAACTTAGTTCC 2464

Qy   2461 CAAATAAATCAATCCTGTCTTTCCCATCTTCGATGTTGCTAATATTAAGGCTTCAGGGCT 2520
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   2465 CAAATAAATCAATCCTGTCTTTCCCATCTTCGATGTTGCTAATATTAAGGCTTCAGGGCT 2524

Qy   2521 ACTTTTATCAACATGCCTGTCTTCAAGATCCCAGTTTATGTTCTGTGTCCTTCCTCATGA 2580
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   2525 ACTTTTATCAACATGCCTGTCTTCAAGATCCCAGTTTATGTTCTGTGTCCTTCCTCATGA 2584

Qy   2581 TTTCCAACCTTAATACTATTAGTAACCACAAGTTCAAGGGTCAAAGGGACCCTCTGTGCC 2640
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   2585 TTTCCAACCTTAATACTATTAGTAACCACAAGTTCAAGGGTCAAAGGGACCCTCTGTGCC 2644

Qy   2641 TTCTTCTTTGTTTTGTGATAAACATAACTTGCCAACAGTCTCTATGCTTATTTACATCTT 2700
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   2645 TTCTTCTTTGTTTTGTGATAAACATAACTTGCCAACAGTCTCTATGCTTATTTACATCTT 2704

Qy   2701 CTACTGTTCAAACTAAGAGATTTTTAAATTCTGAAAAACTGCTTACAATTCATGTTTTCT 2760
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   2705 CTACTGTTCAAACTAAGAGATTTTTAAATTCTGAAAAACTGCTTACAATTCATGTTTTCT 2764

Qy   2761 AGCCACTCCACAAACCACTAAAATTTTAGTTTTAGCCTATCACTCATGTCAATCATATCT 2820
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   2765 AGCCACTCCACAAACCACTAAAATTTTAGTTTTAGCCTATCACTCATGTCAATCATATCT 2824

Qy   2821 ATGAGACAAATGTCTCCGATGCTCTTCTGCGTAAATTAAATTGTGTACTGAAGGGAAAAG 2880
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   2825 ATGAGACAAATGTCTCCGATGCTCTTCTGCGTAAATTAAATTGTGTACTGAAGGGAAAAG 2884
```

```
Qy   2881 TTTGATCATACCAAACATTTCCTAAACTCTCTAGTTAGATATCTGACTTGGGAGTATTAA 2940
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   2885 TTTGATCATACCAAACATTTCCTAAACTCTCTAGTTAGATATCTGACTTGGGAGTATTAA 2944

Qy   2941 AAATTGGGTCTATGACATACTGTCCAAAAGGAATGCTGTTCTTAAAGCATTATTTACAGT 3000
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   2945 AAATTGGGTCTATGACATACTGTCCAAAAGGAATGCTGTTCTTAAAGCATTATTTACAGT 3004

Qy   3001 AGGAACTGGGGAGTAAATCTGTTCCCTACAGTTTGCTGCTGAGCTGGAAGCTGTGGGGGA 3060
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   3005 AGGAACTGGGGAGTAAATCTGTTCCCTACAGTTTGCTGCTGAGCTGGAAGCTGTGGGGGA 3064

Qy   3061 AGGAGTTGACAGGTGGGCCCAGTGAACTTTTCCAGTAAATGAAGCAAGCACTGAATAAAA 3120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   3065 AGGAGTTGACAGGTGGGCCCAGTGAACTTTTCCAGTAAATGAAGCAAGCACTGAATAAAA 3124

Qy   3121 ACCTCCTGAACTGGGAACAAAGATCTACAGGCAAGCAAGATGCCCACACAACAGGCTTAT 3180
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   3125 ACCTCCTGAACTGGGAACAAAGATCTACAGGCAAGCAAGATGCCCACACAACAGGCTTAT 3184

Qy   3181 TTTCTGTGAAGGAACCAACTGATCTCCCCCACCCTTGGATTAGAGTTCCTGCTCTACCTT 3240
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   3185 TTTCTGTGAAGGAACCAACTGATCTCCCCCACCCTTGGATTAGAGTTCCTGCTCTACCTT 3244

Qy   3241 ACCCACAGATAACACATGTTGTTTCTACTTGTAAATGTAAAGTCTTTAAAATAAACTATT 3300
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   3245 ACCCACAGATAACACATGTTGTTTCTACTTGTAAATGTAAAGTCTTTAAAATAAACTATT 3304

Qy   3301 ACAGATAAAAAA 3312
          ||||||||||||
Db   3305 ACAGATAAAAAA 3316
```